> install.packages("foreign") #install package to read in .dta files

Installing package(s) into ‘C:/Users/Owner/Documents/R/win-library/2.15’

(as ‘lib’ is unspecified)

--- Please select a CRAN mirror for use in this session ---

trying URL 'http://lib.stat.cmu.edu/R/CRAN/bin/windows/contrib/2.15/foreign\_0.8-50.zip'

Content type 'application/zip' length 227917 bytes (222 Kb)

opened URL

downloaded 222 Kb

package ‘foreign’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\Owner\AppData\Local\Temp\RtmpsTkXGx\downloaded\_packages

> library(foreign) #load it

> nes<-read.dta("anes2008.dta") #read in data file from working directory,

Warning messages:

1: In read.dta("anes2008.dta") :

value labels (V080001\_) for V080001 are missing

2: In read.dta("anes2008.dta") :

value labels (V081120\_) for V081120 are missing

3: In read.dta("anes2008.dta") :

value labels (V081205\_) for V081205 are missing

4: In read.dta("anes2008.dta") :

value labels (V081206\_) for V081206 are missing

5: In read.dta("anes2008.dta") :

value labels (V084007\_) for V084007 are missing

> #and call it "nes". Takes a minute.

> nes$V085064k[nes$V085064k=="-2"] <- NA #for each selected variable, replace

> nes$V085064k[nes$V085064k=="-6"] <- NA #negative values with "NA" and

> nes$V085064k[nes$V085064k=="-8"] <- NA #generate new variable with

> nes$V085064k[nes$V085064k=="-9"] <- NA #more intuitive name!

> poorppl<-nes$V085064k

> nes$V085064n[nes$V085064n=="-2"] <- NA

> nes$V085064n[nes$V085064n=="-6"] <- NA

> nes$V085064n[nes$V085064n=="-8"] <- NA

> nes$V085064n[nes$V085064n=="-9"] <- NA

> bigbiz<-nes$V085064n

> nes$V085064p[nes$V085064p=="-2"] <- NA

> nes$V085064p[nes$V085064p=="-6"] <- NA

> nes$V085064p[nes$V085064p=="-8"] <- NA

> nes$V085064p[nes$V085064p=="-9"] <- NA

> welfareppl<-nes$V085064p

> nes$V085064d[nes$V085064d=="-2"] <- NA

> nes$V085064d[nes$V085064d=="-6"] <- NA

> nes$V085064d[nes$V085064d=="-8"] <- NA

> nes$V085064d[nes$V085064d=="-9"] <- NA

> feminists<-nes$V085064d

> nes$V085064b[nes$V085064b=="-2"] <- NA

> nes$V085064b[nes$V085064b=="-6"] <- NA

> nes$V085064b[nes$V085064b=="-8"] <- NA

> nes$V085064b[nes$V085064b=="-9"] <- NA

> cfundamentals<-nes$V085064b

> nes$V085064e[nes$V085064e=="-2"] <- NA

> nes$V085064e[nes$V085064e=="-6"] <- NA

> nes$V085064e[nes$V085064e=="-8"] <- NA

> nes$V085064e[nes$V085064e=="-9"] <- NA

> fedgov<-nes$V085064e

> nes$V085064h[nes$V085064h=="-2"] <- NA

> nes$V085064h[nes$V085064h=="-6"] <- NA

> nes$V085064h[nes$V085064h=="-8"] <- NA

> nes$V085064h[nes$V085064h=="-9"] <- NA

> midclass<-nes$V085064h

> nes$V085064m[nes$V085064m=="-2"] <- NA

> nes$V085064m[nes$V085064m=="-6"] <- NA

> nes$V085064m[nes$V085064m=="-8"] <- NA

> nes$V085064m[nes$V085064m=="-9"] <- NA

> military<-nes$V085064m

> nes$V085064r[nes$V085064r=="-2"] <- NA

> nes$V085064r[nes$V085064r=="-6"] <- NA

> nes$V085064r[nes$V085064r=="-8"] <- NA

> nes$V085064r[nes$V085064r=="-9"] <- NA

> workclass<-nes$V085064r

> nes$V085064u[nes$V085064u=="-2"] <- NA

> nes$V085064u[nes$V085064u=="-6"] <- NA

> nes$V085064u[nes$V085064u=="-8"] <- NA

> nes$V085064u[nes$V085064u=="-9"] <- NA

> gays<-nes$V085064u

> nes$V085064v[nes$V085064v=="-2"] <- NA

> nes$V085064v[nes$V085064v=="-6"] <- NA

> nes$V085064v[nes$V085064v=="-8"] <- NA

> nes$V085064v[nes$V085064v=="-9"] <- NA

> asians<-nes$V085064v

> nes$V085064y[nes$V085064y=="-2"] <- NA

> nes$V085064y[nes$V085064y=="-6"] <- NA

> nes$V085064y[nes$V085064y=="-8"] <- NA

> nes$V085064y[nes$V085064y=="-9"] <- NA

> blacks<-nes$V085064y

> nes$V085064z[nes$V085064z=="-2"] <- NA

> nes$V085064z[nes$V085064z=="-6"] <- NA

> nes$V085064z[nes$V085064z=="-8"] <- NA

> nes$V085064z[nes$V085064z=="-9"] <- NA

> southerners<-nes$V085064z

> nes$V085065a[nes$V085065a=="-2"] <- NA

> nes$V085065a[nes$V085065a=="-6"] <- NA

> nes$V085065a[nes$V085065a=="-8"] <- NA

> nes$V085065a[nes$V085065a=="-9"] <- NA

> undocumented<-nes$V085065a

> nes$V085065b[nes$V085065b=="-2"] <- NA

> nes$V085065b[nes$V085065b=="-6"] <- NA

> nes$V085065b[nes$V085065b=="-8"] <- NA

> nes$V085065b[nes$V085065b=="-9"] <- NA

> richppl<-nes$V085065b

> nes$V085065c[nes$V085065c=="-2"] <- NA

> nes$V085065c[nes$V085065c=="-6"] <- NA

> nes$V085065c[nes$V085065c=="-8"] <- NA

> nes$V085065c[nes$V085065c=="-9"] <- NA

> whiteppl<-nes$V085065c

> nes$V085065e[nes$V085065e=="-2"] <- NA

> nes$V085065e[nes$V085065e=="-6"] <- NA

> nes$V085065e[nes$V085065e=="-8"] <- NA

> nes$V085065e[nes$V085065e=="-9"] <- NA

> muslims<-nes$V085065e

> nes$V085065g[nes$V085065g=="-2"] <- NA

> nes$V085065g[nes$V085065g=="-6"] <- NA

> nes$V085065g[nes$V085065g=="-8"] <- NA

> nes$V085065g[nes$V085065g=="-9"] <- NA

> christians<-nes$V085065g

> nes$V085065h[nes$V085065h=="-2"] <- NA

> nes$V085065h[nes$V085065h=="-6"] <- NA

> nes$V085065h[nes$V085065h=="-8"] <- NA

> nes$V085065h[nes$V085065h=="-9"] <- NA

> atheists<-nes$V085065h

> nes$V085072[nes$V085072=="-1. INAP, R selected for VERSION NEW"] <- NA

> nes$V085072[nes$V085072=="-2. No Post-election IW"] <- NA

> nes$V085072[nes$V085072=="-8. Don't know"] <- NA

> nes$V085072[nes$V085072=="-9. Refused"] <- NA

> interest<-nes$V085072

> nes$V083215x[nes$V083215x=="-4"] <- NA

> nes$V083215x[nes$V083215x=="-8"] <- NA

> nes$V083215x[nes$V083215x=="-9"] <- NA

> age<-nes$V083215x

> nes$V083007[nes$V083007=="-8. Don't know"] <- NA

> nes$V083007[nes$V083007=="-9. Refused"] <- NA

> voted2004<-nes$V083007

> nes$V083018[nes$V083018=="-8. Don't know"] <- NA

> nes$V083018[nes$V083018=="-9. Refused"] <- NA

> internet<-nes$V083018

> nes$V083019[nes$V083019=="-1. INAP, R selected for version NEW"] <- NA

> nes$V083019[nes$V083019=="-8. Don't know"] <- NA

> nes$V083019[nes$V083019=="-9. Refused"] <- NA

> tvnewsdays<-nes$V083019

> nes$V083019a[nes$V083019a=="-1. INAP, R selected for version NEW; 0,-8,-9 in A11b"] <- NA

> nes$V083019a[nes$V083019a=="-8. Don't know"] <- NA

> nes$V083019a[nes$V083019a=="-9. Refused"] <- NA

> tvnewsattention<-nes$V083019a

> nes$V083027[nes$V083027=="-8. Don't know"] <- NA

> nes$V083027[nes$V083027=="-9. Refused"] <- NA

> righttrack<-nes$V083027

> nes$V083097[nes$V083097=="-8. Don't know"] <- NA

> nes$V083097[nes$V083097=="-9. Refused"] <- NA

> partyid<-nes$V083097

> nes$V081102[nes$V081102=="-4. NA (blank recorded)"] <- NA

> nes$V081102[nes$V081102=="-9. Refused in household listing"] <- NA

> nes$V081102[nes$V081102=="6. Black and another race"] <- NA

> nes$V081102[nes$V081102=="5. White and another race"] <- NA

> nes$V081102[nes$V081102=="7. White, black and another race"] <- NA

> race<-nes$V081102

> nes$V083218b[nes$V083218b=="-1. INAP, 0-12,-8,-9 in Y3"] <- NA

> nes$V083218b[nes$V083218b=="-8. Don't know"] <- NA

> nes$V083218b[nes$V083218b=="-9. Refused"] <- NA

> education<-nes$V083218b

> #---------------Example Analyses-------------------#

> summary(education) #education is a factor variable so it gives

-9. Refused

0

-8. Don't know

0

-1. INAP, 0-12,-8,-9 in Y3

0

0. No degree earned

460

1. Bachelor's degree

333

2. Master's degree

121

3. PhD, LIT, SCD, DFA, DLIT, DPH, DPHIL, JSC, SJD

16

4. LLB, JD

5

5. MD, DDS, DVM, MVSA, DSC, DO

8

6. JDC, STD, THD

2

7. Associate degree (AA)

260

NA's

1117

> #number of respondents in each category

> summary(bigbiz) #bigbiz is a quantitative or numeric

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's

0.00 40.00 50.00 55.27 70.00 100.00 259

> #variable, so it gives stats.

> boxplot(bigbiz) #boxplot of feelings toward big business

> cor(christians, cfundamentals, use="complete.obs") #correlation between feelings

[1] 0.5477493

> #about Christians and

> #Christian fundamentalists

> summary(bigbiz)

Min. 1st Qu. Median Mean 3rd Qu. Max. NA's

0.00 40.00 50.00 55.27 70.00 100.00 259

> summary(education)

-9. Refused

0

-8. Don't know

0

-1. INAP, 0-12,-8,-9 in Y3

0

0. No degree earned

460

1. Bachelor's degree

333

2. Master's degree

121

3. PhD, LIT, SCD, DFA, DLIT, DPH, DPHIL, JSC, SJD

16

4. LLB, JD

5

5. MD, DDS, DVM, MVSA, DSC, DO

8

6. JDC, STD, THD

2

7. Associate degree (AA)

260

NA's

1117

> hist(education)

Error in hist.default(education) : 'x' must be numeric

> education <-as.numeric(education)

> hist(education)

> hist(education, col="green",xlab="Level of Education", ylab="Number of Responses", main="Education")

> hist(bigbiz, col="blue". xlab="Thermometer", ylab="Number of Responses", main="Big Business")

Error: unexpected symbol in "hist(bigbiz, col="blue"."

> hist(bigbiz, col="blue",xlab="Thermometer", ylab="Number of Responses", main="Big Business")

> wvioplot(education, names="Education")

Error: could not find function "wvioplot"

> install.packages("utils") # Install package "utils", which will let us download files

Installing package(s) into ‘C:/Users/Owner/Documents/R/win-library/2.15’

(as ‘lib’ is unspecified)

Warning: package ‘utils’ is in use and will not be installed

> 09

[1] 9

> # from the internet.

> 10

[1] 10

> library(utils) # Load it.

> 11

[1] 11

> 12

[1] 12

> install.packages("Hmisc") # Install package "Hmisc," many useful functions.

Installing package(s) into ‘C:/Users/Owner/Documents/R/win-library/2.15’

(as ‘lib’ is unspecified)

trying URL 'http://lib.stat.cmu.edu/R/CRAN/bin/windows/contrib/2.15/Hmisc\_3.9-3.zip'

Content type 'application/zip' length 1442295 bytes (1.4 Mb)

opened URL

downloaded 1.4 Mb

package ‘Hmisc’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\Owner\AppData\Local\Temp\RtmpsTkXGx\downloaded\_packages

> 13

[1] 13

>

> library(Hmisc) # Load it.

Loading required package: survival

Loading required package: splines

Hmisc library by Frank E Harrell Jr

Type library(help='Hmisc'), ?Overview, or ?Hmisc.Overview')

to see overall documentation.

NOTE:Hmisc no longer redefines [.factor to drop unused levels when

subsetting. To get the old behavior of Hmisc type dropUnusedLevels().

Attaching package: ‘Hmisc’

The following object(s) are masked from ‘package:survival’:

untangle.specials

The following object(s) are masked from ‘package:base’:

format.pval, round.POSIXt, trunc.POSIXt, units

> 14

[1] 14

> 15

[1] 15

> install.packages("wvioplot") # Install the package called "wvioplot" for making

Installing package(s) into ‘C:/Users/Owner/Documents/R/win-library/2.15’

(as ‘lib’ is unspecified)

trying URL 'http://lib.stat.cmu.edu/R/CRAN/bin/windows/contrib/2.15/wvioplot\_0.1.zip'

Content type 'application/zip' length 14484 bytes (14 Kb)

opened URL

downloaded 14 Kb

package ‘wvioplot’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\Owner\AppData\Local\Temp\RtmpsTkXGx\downloaded\_packages

> 16

[1] 16

> # fancy box plots called "violin plots."

> 17

[1] 17

> library(wvioplot) # Load it.

> 18

[1] 18

> 19

[1] 19

> 20

[1] 20

> install.packages("pastecs") # Install package "pastecs", which has a nice function

Installing package(s) into ‘C:/Users/Owner/Documents/R/win-library/2.15’

(as ‘lib’ is unspecified)

trying URL 'http://lib.stat.cmu.edu/R/CRAN/bin/windows/contrib/2.15/pastecs\_1.3-11.zip'

Content type 'application/zip' length 1626214 bytes (1.6 Mb)

opened URL

downloaded 1.6 Mb

package ‘pastecs’ successfully unpacked and MD5 sums checked

The downloaded binary packages are in

C:\Users\Owner\AppData\Local\Temp\RtmpsTkXGx\downloaded\_packages

> 21

[1] 21

> # for summary statistics we're interested in.

> 22

[1] 22

> library(pastecs) # Load it.

Loading required package: boot

Attaching package: ‘boot’

The following object(s) are masked from ‘package:survival’:

aml

> 23

[1] 23

> wvioplot(education, names="Education")

> wvioplot(education, names="Education", col="purple")

> wvioplot(bigbiz, names="Big Business", col="red")

> save.image("C:\\Users\\Owner\\Downloads\\test")

> density(education, na.rm=TRUE)

Call:

density.default(x = education, na.rm = TRUE)

Data: education (1205 obs.); Bandwidth 'bw' = 0.3251

x y

Min. : 3.025 Min. :0.002230

1st Qu.: 5.262 1st Qu.:0.006515

Median : 7.500 Median :0.041636

Mean : 7.500 Mean :0.111534

3rd Qu.: 9.738 3rd Qu.:0.204807

Max. :11.975 Max. :0.471282

> densityplot(education, na.rm=TRUE)

Error: could not find function "densityplot"

> density(education)

Error in density.default(education) : 'x' contains missing values

> density(education, na.rm=TRUE)

Call:

density.default(x = education, na.rm = TRUE)

Data: education (1205 obs.); Bandwidth 'bw' = 0.3251

x y

Min. : 3.025 Min. :0.002230

1st Qu.: 5.262 1st Qu.:0.006515

Median : 7.500 Median :0.041636

Mean : 7.500 Mean :0.111534

3rd Qu.: 9.738 3rd Qu.:0.204807

Max. :11.975 Max. :0.471282

> d <- density(meducation, na.rm=TRUE) plotd, main="Kernel Density of Miles Per Gallon")

Error: unexpected symbol in "d <- density(meducation, na.rm=TRUE) plotd"

> d <- density(education, na.rm=TRUE) plot(d, main="Education")

Error: unexpected symbol in "d <- density(education, na.rm=TRUE) plot"

> d <- density(education, na.rm=TRUE)

> d <- density(education, na.rm=TRUE)

> plot(d, main="Education")

> polygon(d, col="green", border="purple")

> d <- density(bigbiz)

Error in density.default(bigbiz) : 'x' contains missing values

> d <-density(bigbiz, na.rm=TRUE)

> plot(d, main="Big Business")

> polygon(d,col="red",border="blue")

> sd(education, na.rm=TRUE)

[1] 2.704102

> sd(bigbiz, na.rm=TRUE)

[1] 22.58325

> mean(education)

[1] NA

> mean(education, na.rm=TRUE)

[1] 6.087137

> median(education, na.rm=TRUE)

[1] 5

> min(education, na.rm=TRUE)

[1] 4

> max(education, na.rm=TRUE)

[1] 11

> attach(education)

Error in attach(education) :

'attach' only works for lists, data frames and environments

> attach(bigbiz)

Error in attach(bigbiz) :

'attach' only works for lists, data frames and environments

> library(bigbiz)

Error in library(bigbiz) : there is no package called ‘bigbiz’

> scatterplot(bigbiz)

Error: could not find function "scatterplot"

> save.image("C:\\Users\\Owner\\Downloads\\test")

> duration=bigbiz

> waiting=workclass

> plot(duration,waiting)

> plot(duration,waiting,xlab="Big Business", ylab="Working Class")

> plot(duration,waiting,xlab="Big Business", ylab="Working Class", main="Thermometer of Working Class and Big Business")

> abline(lm(waiting~duration))

> duration=welfareppl

> waiting=workclass

> plot(duration,waiting, xlab="People on Welfare", ylab="Working Class", main="Thermometer of Working Class and People on Welfare")

> cor(workclass,welfareppl,use=”complete.obs”)

Error: unexpected input in "cor(workclass,welfareppl,use=”"

> cor(workclass,welfareppl,use=”complete.obs”)

Error: unexpected input in "cor(workclass,welfareppl,use=”"

> cor(workclass,welfareppl)

[1] NA

> cor(workclass,welfareppl,na.rm=TRUE)

Error in cor(workclass, welfareppl, na.rm = TRUE) :

unused argument(s) (na.rm = TRUE)

> cor(workclass,use="complete.obs")

Error in cor(workclass, use = "complete.obs") :

supply both 'x' and 'y' or a matrix-like 'x'

> cor(workclass,welfareppl,use="complete.obs")

[1] 0.1948349

> save.image("C:\\Users\\Owner\\Downloads\\test")